

Recombinant Full Length Human VRK1 protein, His tagged

Cat. No. VRK1-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human VRK1 protein (1-396 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-396 aa
Description	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. Its protein localizes to the nucleus and has been shown to promote the stability and nuclear accumulation of a transcriptionally active p53 molecule and, in vitro, to phosphorylate Thr18 of p53 and reduce p53 ubiquitination. This gene, therefore, may regulate cell proliferation. This protein also phosphorylates histone, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN.
Form	Lyophilized
Molecular Mass	47 kDa
AA Sequence	MVHHHHHHHHHHMPRVKAAQAGRQSSAKRHLAEQFAVGEIITDMAKKEWKVGLPI GQGGFGCIYLADMNSSESVGSDAPCVVKVEPSDNGPLFTELKIFYQRAAKPEQIQKW

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IRTRKLKYLGVPKYWGSGLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVL
 QLSLRILDILEYIHEHEYVHGDIKASNLLNLYKNPDQVYLVYGLAYRYCPEGVHKEY
 KEDPKRCHDGTIEFTSIDAHNGVAPSRRGDLEILGYCMIQWLTGHLPWEDNLKDPKY
 VRDSKIRYRENIASLMDKCFPEKNKPGEIAKYMETVKLLDYTEKPLYENLRDILLQGL
 KAIGSKDDGKLDLSVVENGGLKAKTITKKRKKEIEESKEPGVEDTEWSNTQTEEAIQT
 RSRTRKRVQK

Purity > 90 % by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 50mM Tris, 300mM NaCl, pH 7.5, 5 % Trehalose, 5 % Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.65 mg/mL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name VRK1 VRK serine/threonine kinase 1 [Homo sapiens (human)]

Official Symbol VRK1

Synonyms VRK1; vaccinia related kinase 1; serine/threonine-protein kinase VRK1; vaccinia-related kinase 1; vaccinia virus B1R-related kinase 1; PCH1; MGC117401; MGC138280; MGC142070

Gene ID 7443

mRNA Refseq NM_003384

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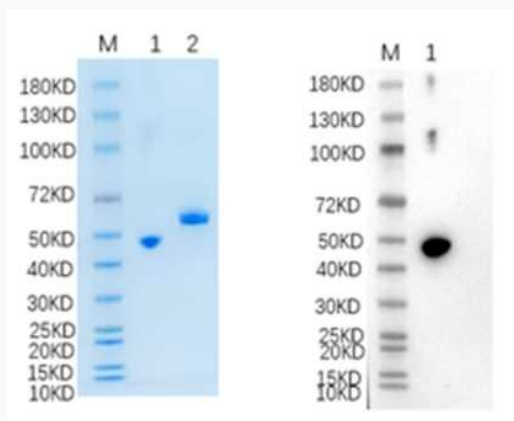
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Protein Refseq NP_003375

MIM 602168

UniProt ID Q99986

Reducing 12 % SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified VRK1.



1. VRK1
2. BSA

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